

L195 Wide Flat Panel Monitor User's Guide



Product numbers

4418-HB1 4419-HB1

First Edition (April 2008)

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Safety information

Before installing this product, read the Safety Information.

Avant d'installer ce produit, lisez les consignes de sécurité.

Vor der Installation dieses Produkts die Sicherheitshinweise lesen.

Πριν εγκαταστήσετε το προϊόν αυτό, διαβάστε τις πληροφορίες ασφάλειας (safety information).

לפני שתתקינו מוצר זה, קראו את הוראות הבטיחות.

A termék telepítése előtt olvassa el a Biztonsági előírásokat!

Prima di installare questo prodotto, leggere le Informazioni sulla Sicurezza

Antes de instalar este produto, leia as Informações de Segurança.

Läs säkerhetsinformationen innan du installerar den här produkten.

Prije instalacije ovog produkta obavezno pročitajte Sigurnosne Upute.

Les sikkerhetsinformasjonen (Safety Information) før du installerer dette produktet.

Przed zainstalowaniem tego produktu, należy zapoznać się z książką "Informacje dotyczące bezpieczeństwa" (Safety Information).

Пред да се инсталира овој продукт, прочитајте информацијата за безбедност.

Pred inštaláciou tohto zariadenia si peèítaje Bezpeènostné predpisy.

Pred namestitvijo tega proizvoda preberite Varnostne informacije.

Ennen kuin asennat t m n tuotteen, lue turvaohjeet kohdasta Safety Information.

Před instalac tohoto produktu si přečtěte příručku bezpečnostních instrukcí

在安装本产品之前,请仔细阅读 Safety Information(安全信息)。

安裝本產品之前,請先閱讀「安全資訊」。

مج، يجب قراءة دات السلامة

Læs sikkerhedsforskrifterne, før du installerer dette produkt.

製品の設置の前に、安全情報をお読みください。

본 제품을 설치하기 전에 안전 정보를 읽으십시오.

Antes de instalar este producto lea la información de seguridad.

Antes de instalar este produto, leia as Informações de Segurança.

Перед установкой продукта прочтите инструкции по технике безопасности.

Lees voordat u dit product installeert eerst de veiligheidsvoorschriften.

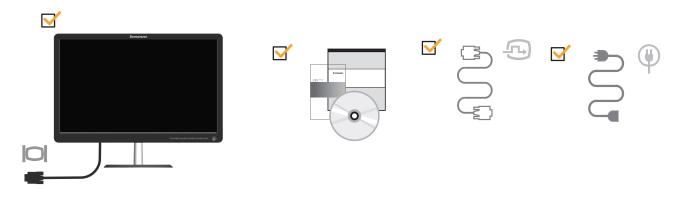
Chapter 1. Getting started

This User's Guide contains detailed information on the your Flat Panel Monitor. For a quick overview, please see the Setup Poster that was shipped with your monitor.

Shipping contents

The product package should include the following items:

- Setup Poster
- Reference and Driver CD
- Flat Panel Monitor
- Power Cord
- Analog Interface Cable Attached to monitor
- Digital Interface Cable

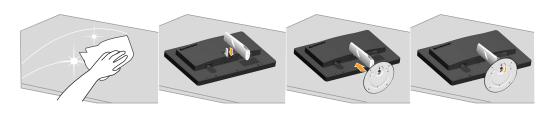


Attaching the base and handling your monitor

To set up your monitor, please see the illustrations below.

Note: Do not touch the monitor within the screen area. The screen area is glass and can be damaged by rough handling or excessive pressure.





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Product overview

This section will provide information on adjusting monitor positions, setting user controls.

Adjusting the tilt

The illustration below shows the tile range of the monitor. For more information, see see "Positioning your monitor" on page 2-1.



Monitor controls

Your monitor has controls on the front which are used to adjust the display.

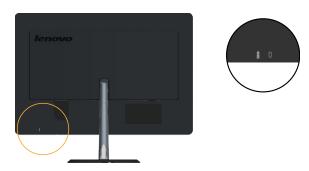


For information on how to use these controls, please see "Adjusting your monitor image" on page 2-3.

Cable lock slot

Your monitor is equipped with a cable lock slot located on the rear of your monitor (in the lower position). Please see the instructions that come with the cable lock to learn how to attach it.





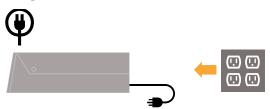
Setting up your monitor

This section provides information on how to set up your monitor.

Connecting and turning on your monitor

Note: Be sure to read the Safety Information located in the Monitor Safety, *Troubleshooting, and Warranty Guide* before carrying out this procedure.

Power off your computer and all attached devices, and unplug the computer power cord.



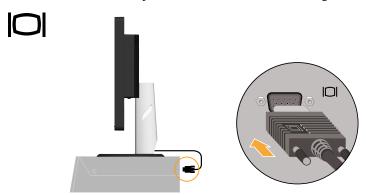
2. Remove the Cable Cover from the back of the stand.



3. Connect the analog signal cable to the video port on the back of the computer.

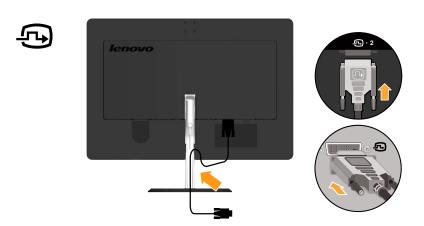
Note: One end of the signal cable is already pre-attached to your monitor.

Place the cable into the specific hook indicated in below figure.



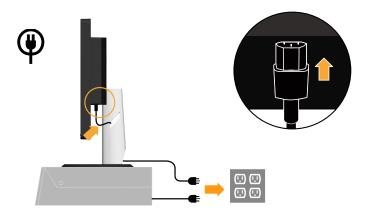
4. Connect the digital cable to the DVI connector of the monitor and the other end on the back of the computer.

Note: The digital cable is not included with the monitor. Place the cable into the specific hook indicated in below figure.



5. Insert the power cord into the monitor ,then plug the monitor power cord and the computer cord into grounded electrical outlets. Place the cable into the specific hook indicated in below figure.

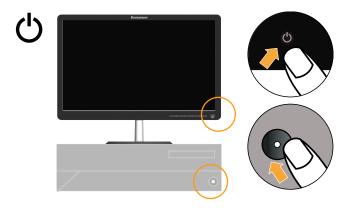
Note: A certified power supply cord has to be used with this equipment. The relevant national installation and/or equipment regulations shall be considered. A certified power supply cord not lighter than ordinary polyvinyl chloride flexible cord according to IEC 60227 (designation H05VV-F 3G 0.75mm² or H05VVH2-F2 3G 0.75mm²) shall be used. Alternative a flexible cord be of synthetic rubber according to IEC 60245 (designation H05RR-F3G 0.75mm²) shall be used.



6. Replace the Cable Cover.



7. Power on the monitor and the computer.



8. To install the monitor driver, insert the *Reference and Driver CD*, click **Install driver**, and follow the on-screen instructions.



9. To optimize your monitor image, press the Automatic Image Setup key. Automatic image setup requires that the monitor is warmed up for at least 15 minutes. This is not required for normal operation.



Note: If automatic image setup does not establish the image that you prefer, perform manual image setup. See "Manual image setup" on page 3-4.

Chapter 2. Adjusting and using your monitor

This section will give you information on adjusting and using your monitor.

Comfort and accessibility

Good ergonomic practice is important to get the most from your personal computer and to avoid discomfort. Arrange your workplace and the equipment you use to suit your individual needs and the kind of work that you perform. In addition, use healthy work habits to maximize your performance and comfort while using your computer. For more detailed information on any of these topics, visit the Healthy Computing Web site at: http://www.lenovo.com/healthycomputing/.

Arranging your work area

Use a work surface of appropriate height and available working area to allow you to work in comfort.

Organize your work area to match the way you use materials and equipment. Keep your work area clean and clear for the materials that you typically use and place the items that you use most frequently, such as the computer mouse or telephone, within the easiest reach.

Equipment layout and setup play a large role in your working posture. The following topics describe how to optimize equipment setup to achieve and maintain good working posture.

Positioning your monitor

Position and adjust your computer monitor for comfortable viewing by considering the following items:

- **Viewing distance**: Optimal viewing distances for monitors range from approximately 510mm to 760mm (20 in to 30 in) and can vary depending on ambient light and time of day. You can achieve different viewing distances by repositioning your monitor or by modifying your posture or chair position. Use a viewing distance that is most comfortable for you.
- Monitor height: Position the monitor so your head and neck are in a comfortable and neutral (vertical, or upright) position. If your monitor does not have height adjustments, you might have to place books or other sturdy objects under the base of the monitor to achieve the desired height. A general guideline is to position the monitor such that the top of the screen is at or slightly below your eye-height when you are comfortably seated. However, be sure to optimize your monitor height so the line of site between your eyes and the center the monitor suits your preferences for visual distance and comfortable viewing when your eye muscles are in a relaxed state.
- **Tilt**: Adjust the tilt of your monitor to optimize the appearance of the screen content and to accommodate your preferred head and neck posture.
- **General location**: Position your monitor to avoid glare or reflections on the screen from overhead lighting or nearby windows.

The following are some other tips for comfortable viewing of your monitor:

Use adequate lighting for the type of work you are performing.

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- Use the monitor brightness, contrast, and image adjustment controls, if equipped, to optimize the image on your screen to meet your visual preferences.
- Keep your monitor screen clean so you can focus on the screen's contents.

Any concentrated and sustained visual activity can be tiring for your eyes. Be sure to periodically look away from your monitor screen and focus on a far object to allow your eye muscles to relax. If you have questions on eye fatigue or visual discomfort, consult a vision care specialist for advice.

Quick tips for healthy work habits

The following information is a summary of some important factors to consider to help you remain comfortable and productive while you use your computer.

- Good posture starts with equipment setup: The layout of your work area and the setup of your computer equipment have a large effect on your posture while using your computer. Be sure to optimize the position and orientation of your equipment by following the tips outlined in "Arranging your work area" on page 2-1 so you can maintain a comfortable and productive posture. Also, be sure to use the adjustment capabilities of your computer components and office furniture to best suit your preferences now and as your preferences change over time.
- Minor changes in posture can help avoid discomfort: The longer you sit and work with your computer, the more important it is to observe your working posture. Avoid assuming any one posture for an extended period of time. Periodically make minor modifications in your posture to help deter any discomforts that might arise. Make use of any adjustments that your office furniture or equipment provide to accommodate changes in posture
- Short, periodic breaks help ensure healthy computing: Because computing is primarily a static activity, it is particularly important to take short breaks from your work. Periodically, stand up from your work area, stretch, walk for a drink of water, or otherwise take a short break from using your computer. A short break from work gives your body a welcome change in posture and helps to ensure you remain comfortable and productive while you do work.

Adjusting your monitor image

This section describes the control features to adjust your monitor image.

Using the direct access controls

The direct access controls can be used when the On Screen Display (OSD) is not displayed.

Table 2-1. Direct access controls

Icon	Control	Description
1-2-2	Input Change	Switches the video input source.
(30	Image Setup	Activates automatic image adjustment.
.♦	NOVO VISION	Direct access to NOVO VISION adjustment.

Using the On-Screen Display (OSD) controls

To adjust the settings, the user controls can be viewed through the OSD.



To use the controls:

- 1. Press ← to open the main OSD menu.
- Use ← or → to move among the icons. Select an icon and press ← to access that function. If there is a sub-menu, you can move between options using \leftarrow or \rightarrow , then press \leftrightarrow to select that function. Use \leftarrow or \rightarrow to make adjustments. Press \leftrightarrow to save.
- 3. Press \bigcirc to move backwards through the sub-menus and exit from the OSD.
- 4. Press and hold \leftarrow for 10 seconds to lock the OSD. This will prevent accidental adjustments to the OSD. Press and hold ← for 10 seconds to unlock the OSD and allow adjustments to the OSD.
- Enables DDC/CI by default. Use OSD Exit Key, Press and hold the button for 10 seconds to disable / enable DDC/CI function. The words "DDC/CI disable" shows on the screen.

Table 2-2. OSD functions

OSD Icon on Main Menu	Submenu	Description	Adjus	ols and tments alog)	Controls and Adjustments (Digital)
∹∳- Brightness/	-☆ Brightness	Adjusts overall brightness	<u>⊠</u>	<u>□</u>	Same as Analog
Contrast	① Contrast	Adjusts difference between light and dark areas	●	○	
© Image Position	© Horizontal Position	Moves the image left or right.	₽	△	Controls Locked - not required for digital input
	Vertical Position	Moves the image up or down.	□ ←	△	
(10) Image Setup	(10) Automatic	Automatically optimizes the in	nage.		
	€(0 Manual	Manually optimizes the image. setup" on page 3-4. Clock Phase Save	See "Man	ual image	
Image Properties	Color	Adjusts intensity of red, green, Preset mode Default Redult Reddish Bluish Custom Red: Increases or decrease 'red' in the image. Green: Increases or decrease 'green' in the image. Blue: Increases or decrease 'blue' in the image.	s the satur ses the satu	ation of uration of ration of	Same as Analog
	E Scaling	off native (1:1)on expand the image to full	ll screen		

Table 2-2. OSD functions

OSD Icon on Main Menu	Submenu	Description	Controls and Adjustments (Analog)	Controls and Adjustments (Digital)
	¹∰² Input video signal	This monitor can accept video of different connectors. Most desl a D-SUB connector. Select digit Controls when you use DVI cores Selects D-SUB (Analog) - Selects DVI-Digital	ktop computers use al among OSD	Same as Analog
	.❖ NOVO VISION	Optimize screen for specific tas Text Internet Video Split Demo	sks	
⊕ Options	(j) Information	Shows resolution, refresh rate, Note: This screen does not allo the settings.	•	Same as Analog
		This section lists the languages monitor. Note: The language chosen onlanguage of the OSD. It has no software running on the compa	y affects the effect on any	
	Menu Position	Menu position adjusts menu lo screen. Default Default returns the menu posit settings. Custom Horizontal: Changes the hothe OSD. Vertical: Changes the verticosD. Save	ion to the default prizontal position of	Same as Analog
	(R) Reset	CancelResetResets monitor to the original f	actory settings.	
	(†) Accessibility	Controls button and menu setti preferences. Button repeat rate: Select ← or → to change. Off Default Slow Menu time out: Sets the l OSD will remain active after the is pressed.	ength of time the	
EXIT		• Exit OSD.		

Selecting a supported display mode

The display mode the monitor uses is controlled by the computer. Therefore, refer to your computer documentation for details on how to change display modes.

The image size, position and shape might change when the display mode changes. This is normal and the image can be readjusted using automatic image setup and the image controls.

Unlike CRT monitors, which require a high refresh rate to minimize flicker, LCD or Flat Panel technology is inherently flicker-free.

Note: If your system has previously been used with a CRT monitor and is currently configured to a display mode outside the range of this monitor, you may need to reattach the CRT monitor temporarily until you have re-configured the system; preferably to 1440×900 at 60 Hz, which is the Native Resolution Display mode.

The display modes shown below have been optimized at the factory.

Table 2-3. Factory set display modes

Addressability	Refresh rate
640 x 480	60Hz , 66Hz , 72Hz , 75Hz
720 x 400	70Hz
800 x 600	60Hz , 72Hz , 75Hz
832 x 624	75Hz
1024 x 768	60Hz , 70Hz , 75Hz
1152 x 864	60Hz , 75Hz
1280 x 768	60Hz
1280 x 960	60Hz
1280 x 1024	60Hz , 70Hz , 72Hz , 75Hz
1440 x 900	60Hz , 75Hz

Understanding power management

Power management is invoked when the computer recognizes that you have not used your mouse or keyboard for a user-definable period. There are several states as described in the table below.

For optimal performance, switch off your monitor at the end of each working day, or whenever you expect to leave it unused for long periods during the day.

Table 2-4. Power indicator

State	Power Indicator	Screen	Restoring Operation	Compliance
On	Blue	Normal		
Standby/Suspend	Amber	Blank	Press a key or move the mouse There may be a slight delay before the image reappears.	ENERGY STAR
			Note: Standby also occurs if there is no image output to the monitor.	
Off	Off	Blank		ENERGY STAR

Caring for your monitor

Be sure to turn off the power before you perform any maintenance on the monitor.

Do not:

- Apply water or liquid directly to your monitor.
- Use solvents or abrasives.
- Use flammable cleaning materials to clean your monitor or any other electrical equipment.
- Touch the screen area of your monitor with sharp or abrasive items. This type of contact may cause permanent damage to your screen.
- Use any cleaner which contains an anti-static solution or similar additives. This may harm the coating of the screen area.

Do:

- Lightly dampen a soft cloth with water and use this to gently wipe the covers and the screen.
- Remove grease or finger marks with a damp cloth and a little mild detergent.

Detaching the monitor stand

To detach the base by pressing the button.





Chapter 3. Reference information

This section contains monitor specifications, instructions to manually install the monitor driver, troubleshooting information, and service information.

Monitor specifications

Table 3-1. Monitor specifications for type-model 4418-HB1,4419-HB1

Dimensions	Height	371.00 mm (14.61 in.)
	Depth	180.00 mm (7.09 in.)
	Width	441.00 mm (17.36 in.)
Stand	Tilt	Range: -5°, +20°
Image	Viewable image size	482.50 mm (19.0 in.)
	Maximum height	408.24 mm (16.07 in.)
	Maximum width	255.15 mm (10.05 in.)
	Pixel pitch	0.2835 mm (0.011 in.) (V)
Power input	Supply voltage	90-264VAC (100~240VAC+/-10%)
	Max supply current	1.5 A
Power consumption	Normal operation	< 36 W (No sound bar) < 45 W (sound bar)
Note: Power consumption figures are for the monitor	Standby/Suspend	< 2W (Anolog), <2W (Digital)
and the power supply	Off	< 1W at 100Vac & 240Vac
combined.	Note:Without soundbar	
Video input (Analog)	Input signal	Analog Direct Drive, 75 ohm 0.7V
	Horizontal addressability	1440 pixels (max)
	Vertical addressability	900 lines (max)
	Clock frequency	137 MHz
Video input (Digital)	Interface	DVI
	Input Signal	VESA TMDS (Panel Link TM)
	Horizontal addressability	1440 pixels (max)
	Vertical addressability	900 lines (max)
	Clock frequency	137 MHz

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Table 3-1. Monitor specifications for type-model 4418-HB1,4419-HB1

Communications	VESA DDC	CI
Supported Display Modes (VESA Standard modes	Horizontal frequency	30 kHz - 81 kHz(Pixel clock <165MHz)
between noted ranges)	Vertical frequency	50 Hz - 76 Hz(Pixel clock <165MHz)
	Native Resolution	1440 x 900 at 60 Hz
Temperature	Operating	0° to 45° C (32° to 113° F)
	Storage	-20° to 60° C (-4° to 140° F)
	Shipping	-20° to 60° C (-4° to 140° F)
Humidity	Operating	10% to 80% non-condensing
	Storage	5% to 95% non-condensing
	Shipping	5% to 95% non-condensing

Troubleshooting

If you have a problem setting up or using your monitor, you might be able to solve it yourself. Before calling your dealer or Lenovo, try the suggested actions that are appropriate to your problem.

Table 3-2. Troubleshooting

Problem	Possible cause	Suggested action	Reference
The words "Out of Range" are shown on the screen, and the power indicator is flashing blue.	The system is set to a display mode which is not supported by the monitor.	If you are replacing an old monitor, reconnect it and adjust the display mode to within the specified range for your new monitor.	"Selecting a supported display mode" on page 2-7
		If using a Windows system, restart the system in safe mode, then select a supported display mode for your computer.	
		If these options do not work, contact the Support Center.	
The image quality is unnacceptable.	The video signal cable is not connected with the monitor or system completely.	Be sure the signal cable is firmly plugged into the system and monitor.	"Connecting and turning on your monitor" on page 1-3
	The color settings may be incorrect.	Select another color setting from the OSD menu.	"Adjusting your monitor image" on page 2-3
	The automatic image setup function was not performed.	Perform automatic image setup.	"Adjusting your monitor image" on page 2-3
The power indictator is not lit and there is	The monitor's power switch is not switched on.	Be sure the power cord is connected properly.	"Connecting and turning on your monitor" on page 1-3
no image.	The power cord is loose or disconnected.	Be sure the outlet has power.Power on the	
	There is no power at the outlet.	monitor. Try using another	
		power cord.Try using another electrical outlet.	
Screen is blank and power indicator is steady amber or	The monitor is in Standby/Suspend mode	Press any key on the keyboard or move the mouse to restore operation.	"Understanding power management" on page 2-8
flashing blue.		Check the Power Options settings on your computer.	

Table 3-2. Troubleshooting

Problem	Possible cause	Suggested action	Reference
The power indicator is blue, but there is no image.	The video signal cable is loose or disconnected from the system or monitor.	Be sure the video cable is connected with the system properly.	"Connecting and turning on your monitor" on page 1-3
	The monitor brightness and contrast are at the lowest setting.	Adjust the brightness and contrast setting on the OSD menu.	"Adjusting your monitor image" on page 2-3
One or more of the pixels appear discolored	This is a characteristic of the LCD technology and is not an LCD defect.	If there are more than five pixels missing, contact the Support Center.	Appendix A, "Service and Support," on page A-1
 Fuzzy lines in text or a blurry image. Horizontal or vertical lines 	 Image setup has not been optimized Your system Display Properties setting have not been 	Adjust the resolution settings on your system to match the native resolution for this monitor: 1440 x 900 at 60 Hz. Perform automatic image	"Adjusting your monitor image" on page 2-3 "Manual image setup"
through the image.	optimized.	setup. If automatic image setup does not help, perform manual image setup.	supported display mode" on page 2-7
		When working in the native resolution, you may find additional improvements by adjusting the Dots Per Inch (DPI) setting on your system.	See the Advanced section of your system's display properties.

Manual image setup

If automatic image setup does not establish the image that you prefer, perform manual image setup.

Note: Have your monitor powered on for about 15 minutes, until the monitor warms

- 1. Press ← at the bottom of the monitor to open the OSD menu.
- 2. Use \leftarrow or \rightarrow to select \bigcirc and press \leftarrow to access.
- 3. Use \leftarrow or \rightarrow to select **Clock** and **Phase** adjustment.
 - Clock (pixel frequency) adjusts the number of pixels scanned by one horizontal sweep. If the frequency is not correct, the screen shows vertical stripes and the picture does not have the correct width.
 - **Phase** adjusts the phase of the pixel clock signal. With a wrong phase adjustment, the picture has horizontal disturbances in light picture.
- 4. When the image no longer looks distorted, save the Clock and Phase adjustments.
- 5. Press → to leave the OSD menu.

Manually installing the monitor driver

Below are steps for manually installing the monitor driver in Microsoft[®] Windows XP[®] Microsoft Windows Vista. Please see the Install Driver section of the *Reference* and *Driver CD* for automatic installation.

Installing the monitor driver in Windows Vista

To use the Plug and Play feature Microsoft Windows Vista, do the following:

Note: You must download file from the Lenovo Monitor CD to use the Plug and Play feature in Windows Vista.

- 1. Turn off the computer and all attached devices.
- 2. Ensure that the monitor is connected correctly.
- 3. Turn on the monitor and then the system unit. Allow your computer to start the Windows Vista operating system.
- 4. Open the **Display Properties** window by clicking **Start, Control Panel and** then double-clicking the **Hardware and Sound** icon.
- 5. Click the **Personalization** icon.
- 6. Click the **Display Settings** icon.
- 7. Click the **Advanced Settings** button.
- 8. Click the **Monitor** tab.
- 9. Click the **Properties** button.
- 10. Click the **Driver** tab.
- 11. Open the "**Update Driver Software-Generic PnP Monitor**" window by clicking on **Update Driver** and then click the "**Browse my computer for driver software**" button.
- 12. Select "Let me pick from a list of device drivers on my computer".
- 13. Click the **Have Disk** button. Click on the **Browse** button and navigate to the following directory:
 - X:\Monitor Drivers\Windows Vista
 - (where X is the drive letter designator for the CD-ROM drive).
- 14. Select the "L195 Wide.inf" file and click the Open button. Click the OK button.
- 15. Select **L195 Wide** and click **Next**. The files will be copied from the CD to yourhard disk drive.
- 16. Close all open windows and remove the CD.
- 17. Restart the system. The system will automatically select the maximum refresh rate and corresponding Color Matching Profiles.

Note: On LCD monitors, unlike CRTs, a faster refresh rate does not improve display quality. Lenovo recommends using either 1440×900 at a refresh rate of 60 Hz, or 640×480 at a refresh rate of 60 Hz.

Installing the monitor driver in Windows XP

To use the Plug and Play feature in Windows XP, files should be loaded from the Reference and Driver CD.

Note: This section must be completed before continuing with the Windows XP automatic image setup.

- 1. Turn off the computer and all attached devices.
- Ensure that the monitor is connected correctly.
- Turn on the monitor and then the system unit. Allow the system to boot into Windows XP.
- 4. Open the **Display Properties** window by clicking **Start** → **Settings** → **Control Panel**, and then double-clicking the **Display** icon.
- 5. Click the **Settings** tab.
- 6. Click the **Advanced** button.
- 7. Click the **Monitor** tab.
- 8. Click the **Properties** button.
- 9. Click the **Drivers** tab.
- 10. Open the **Hardware Update Wizard** window by clicking on **Update Driver**, and then click Next.
- 11. Select Install from a list or Specific location(Advanced), and then click Next.
- 12. Select "Don't search. I will choose the driver to install" option, and then click Next.
- 13. Click the **Have Disk** button. Click on the **Browse** button and navigate to thefollowing directory:
 - X:\Monitor Drivers\Windows XP
 - (where X is the drive letter designator for the CD-ROM drive).
- 14. Select the "L195 Wide.inf" file and click the Open button. Click the OK button.
- 15. Select **L195 Wide** and click **Next**. The files will be copied from the CD to yourhard disk drive.
- 16. Close all open windows and remove the CD.
- 17. Restart the system. The system will automatically select the maximum refresh rate and corresponding Color Matching Profiles.

Note: On LCD monitors, unlike CRTs, a faster refresh rate does not improve display quality. Lenovo recommends using either 1440 x 900 at a refresh rate of 60 Hz, or 640 x 480 at a refresh rate of 60 Hz.

Service parts

The following parts are for use by Lenovo service, or Lenovo aurthorized dealers, to supprot the customer warranty. Parts are for service use only. The table below shows information for model 4418-H*1, 4419-H*1.

Table 3-3. List of service parts

FRU (FIELD REPLACEABLE UNIT) PART NUMBER	DESCRIPTION	MACHINE TYPE MODEL(MTM)	COLOR
43R2417	L195 Wide FRU Monitor Lenovo	4418-HB1	Black
40Y7443	L195 Wide FRU Signal cable(Analog)	4418-HB1	Black
40Y7444	L195 Wide FRU Signal cable(Digital)	4418-HB1	Black
43R2418	L195 Wide FRU Stand	4418-HB1	Black
45J7655	L195 Wide FRU Monitor Lenovo	4419- HB1	Black
40Y7443(Assigned by L201p)	L195 Wide FRU Signal cable(Analog)	4419- HB1	Black
40Y7444(Assigned by L201P)	L195 Wide FRU Signal cable(Digital)	4419- HB1	Black
45J7656	L195 Wide FRU Stand	4419- HB1	Black

Appendix A. Service and Support

The following information describes the technical support that is available for your product, during the warranty period or throughout the life of the product. Refer to your Lenovo Statement of Limited Warranty for a full explanation of Lenovo warranty terms.

Online technical support

Online technical support is available during the life of your product through the Lenovo Support Web site at http://www.lenovo.com/think/support.

During the warranty period, assistance for replacement or exchange of defective components is available. In addition, if your option is installed in a Lenovo computer, you might be entitled to service at your location. Your technical support representative can help you determine the best alternative.

Telephone technical support

Installation and configuration support through the Customer Support Center will be withdrawn or made available for a fee, at Lenovo's discretion, 90 days after the option has been withdrawn from marketing. Additional support offerings, including step-by-step installation assistance, are available for a nominal fee.

To assist the technical support representative, have available as much of the following information as possible:

- Option name
- Option number
- Proof of purchase
- · Computer manufacturer, model, serial number, and manual
- Exact wording of the error message (if any)
- · Description of the problem
- Hardware and software configuration information for your system

If possible, be at your computer. Your technical support representative might want to walk you through the problem during the call.

Worldwide telephone list

Phone numbers are subject to change without notice. For the most current phone numbers, go to http://www.lenovo.com/think/support and click **Support phone list**.

Country or Region	Telephone Number
Africa	Africa: +44 (0)1475-555-055 South Africa: +27-11-3028888 and 0800110756 Central Africa: Contact your Lenovo Service provider
Argentina	0800-666-0011 (Spanish)
Australia	131-426 (English)

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Country or Region	Telephone Number
Austria	Up and running support: 01-24592-5901 Warranty service and support: 01-211-454-610 (German)
Belgium	Up and running support: 02-210-9820 (Dutch) Up and running support: 02-210-9800 (French) Warranty service and support: 02-225-3611 (Dutch, French)
Bolivia	0800-0189 (Spanish)
Brazil	Sao Paulo region: (11) 3889-8986 Toll free outside Sao Paulo region: 0800-7014-815 (Brazilian Portuguese)
Canada	1-800-565-3344 (English, French) In Toronto only call: 416-383-3344
Chile	800-224-488 (Spanish)
China	800-810-1818 (Mandarin)
China (Hong Kong S.A.R.)	Home PC: 852-2825-7799 Commercial PC: 852-8205-0333 ThinkPad and WorkPad: 852-2825-6580 (Cantonese, English, Putonghua)
Colombia	1-800-912-3021 (Spanish)
Costa Rica	284-3911 (Spanish)
Croatia	0800-0426
Cyprus	+357-22-841100
Czech Republic	+420-2-7213-1316
Denmark	Up and running support: 4520-8200 Warranty service and support: 7010-5150 (Danish)
Dominican Republic	566-4755 566-5161 ext. 8201 Toll Free within the Dominican Republic: 1-200-1929 (Spanish)
Ecuador	1-800-426911 (Spanish)
El Salvador	250-5696 (Spanish)
Estonia	+386-61-1796-699
Finland	Up and running support: 09-459-6960 Warranty service and support: +358-800-1-4260 (Finnish)
France	Up and running support: 0238-557-450 Warranty service and support (hardware): 0810-631-213 Warranty service and support (software): 0810-631-020 (French)
Germany	Up and running support: 07032-15-49201 Warranty service and support: 01805-25-35-58 (German)
Greece	+30-210-680-1700
Guatemala	335-8490 (Spanish)
Honduras	Tegucigalpa & San Pedro Sula: 232-4222 San Pedro Sula: 552-2234 (Spanish)

Country or Region	Telephone Number
Hungary	+36-1-382-5720
India	1600-44-6666 Alternate Toll Free: +91-80-2678-8940 (English)
Indonesia	800-140-3555 +62-21-251-2955 (English, Bahasa, Indonesian)
Ireland	Up and running support: 01-815-9202 Warranty service and support: 01-881-1444 (English)
Italy	Up and running support: 02-7031-6101 Warranty service and support: +39-800-820094 (Italian)
Japan	Desktop: Toll free: 0120-887-870 For International: +81-46-266-4724
	ThinkPad: Toll free: 0120-887-874 For International: +81-46-266-4724
	Both of the above numbers will be answered with a Japanese language voice prompt. For telephone support in English, please wait for the Japanese voice prompt to end, and an operator will answer. Please ask for "English support please," and your call will be transferred to an English speaking operator.
	PC Software: 0120-558-695 Overseas calls: +81-44-200-8666 (Japanese)
Korea	1588-5801 (Korean)
Latvia	+386-61-1796-699
Lithuania	+386-61-1796-699
Luxembourg	+352-298-977-5063 (French)
Malaysia	1800-88-8558 (English, Bahasa, Melayu)
Malta	+356-23-4175
Mexico	001-866-434-2080 (Spanish)
Middle East	+44 (0)1475-555-055
Netherlands	+31-20-514-5770 (Dutch)
New Zealand	0800-446-149 (English)
Nicaragua	255-6658 (Spanish)
Norway	Up and running support: 6681-1100 Warranty service and support: 8152-1550 (Norwegian)
Panama	206-6047 (Spanish)
Peru	0-800-50-866 (Spanish)
Philippines	1800-1888-1426 +63-2-995-8420 (English, Philipino)

Country or Region	Telephone Number
Poland	+48-22-878-6999
Portugal	+351-21-892-7147 (Portuguese)
Romania	+4-021-224-4015
Russian Federation	+7-095-940-2000 (Russian)
Singapore	1800-3172-888 (English, Bahasa, Melayu)
Slovakia	+421-2-4954-1217
Slovenia	+386-1-4796-699
Spain	91-714-7983 91-397-6503 (Spanish)
Sri Lanka	+94-11-2448-442 (English)
Sweden	Up and running support: 08-477-4420 Warranty service and support: 077-117-1040 (Swedish)
Switzerland	Up and running support: 058-333-0900 Warranty service and support: 0800-55-54-54 (German, French, Italian)
Taiwan	886-2-8723-9799 (Mandarin)
Thailand	1-800-299-229 (Thai)
Turkey	00800-4463-2041 (Turkish)
United Kingdom	Up and running support: 01475-555-055 Warranty service and support (hardware): 08705-500-900 Warranty service and support (software): 08457-151-516 (English)
United States	1-800-426-7378 (English)
Uruguay	000-411-005-6649 (Spanish)
Venezuela	0-800-100-2011 (Spanish)
Vietnam	For northern area and Hanoi: 84-4-8436675 For southern area and Ho Chi Minh City: 84-8-829-5160 (English, Vietnamese)

Appendix B. Notices

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